## REQUEST FOR COUNCIL ACTION

MEETING DATE:

47/

AGENDA SECTION: CONSENT AGENDA		ORIGINATING DEPT: Public Works	ITEM NO.		
ITEM DESCRIPTION: Feasibility Report for Sanitary Se Kahoun's Subdivision Area, J978			PREPARED BY:		

This is the Feasibility Report for the construction of sanitary sewer and watermain to serve the Kahoun's Subdivision Area in a project described as follows:

#### Project No. M1-25, J9786

"Sanitary Sewer and Watermain Extension to Serve the Kahoun's Subdivision Area."

The estimated construction costs and expense of this project are as follows:

Sanitary Sewer and Watermain	\$ 538,390
Service Connections	60,950
Restoration	345,350
Sub-Total	\$ 944,690
Engineering/Interest/Contingencies	283,407
Total Estimated Project Cost	\$1,228,097

The Kahoun's Area sanitary sewer and watermain extension project is included in the 2003 Capital Budget.

The Kahoun's Subdivision Area is included in Orderly Annexation Agreement #3 between Marion Township and the City of Rochester. Annexation of the Kahoun's Subdivision Area will occur no sooner than January 1<sup>st</sup> of the year 5 years after a sanitary sewer and watermain extension project is substantially completed to serve the Area.

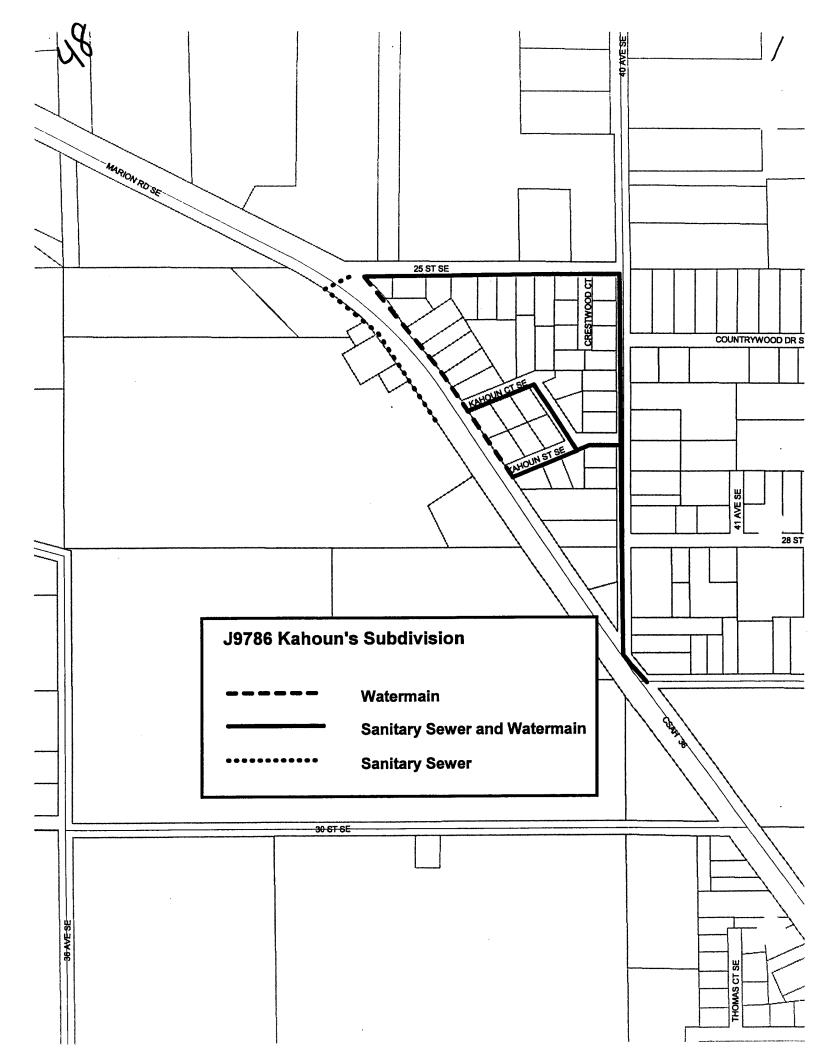
The project is proposed to be funded from Sanitary Sewer and Watermain Connection Charges (Utility Connection Agreements), future charges to undeveloped land that is located adjacent to the project, RPU share for oversize watermain costs, project cost transfers to J9604 SE Area Trunk Watermain and J9598 Marion Trunkline Sanitary Sewer and J9787 Crystal Springs sanitary sewer and watermain project, and Sales Tax Revenue appropriated to the Water Quality Protection Program.

#### **COUNCIL ACTION REQUESTED:**

- 1. Adopt a resolution accepting the Feasibility Report.
- 2. Adopt a resolution establishing a Project Hearing for February 19, 2003.

Attachments: Feasibility Report Location Map

COUNCIL ACTION: Motion by:	Second by:	to:





# REPORT ON THE FEASIBILITY OF PROPOSED LOCAL IMPROVEMENT PROJECT

### TO SERVE THE KAHOUN'S SUBDIVISION AREA.

January 22, 2003

Honorable Mayor & Common Council City of Rochester, Minnesota

A petition for sanitary sewer and watermain to serve the Kahoun's Subdivision Area was forwarded by the City Council at their meeting of August 2, 1999 to the Public Works Department for the preparation of a Feasibility Report. The petition was checked and found to be in proper form and was signed by 26 of 45 property owners of lots containing a single-family residential dwelling. This represents 57.8 percent of the single-family residential lots within the Kahoun's Subdivision Area that are eligible to participate in the City of Rochester, Water Quality Protection Program (WQPP) adopted by the City Council on December 21, 1999. The Kahoun's Subdivision Area also includes 4 developed lots that were not included in the original petition area, however the property owners of these four lots have indicated to the WQPP, Project Manager that they desire to have their properties served with city sanitary sewer and watermain in conjunction with the Kahoun's Subdivision Area project. With the four additional requests to be included in the Kahoun's project 30 of 49 owners of lots containing an existing single-family residential dwelling desire to have city sanitary sewer and watermain extended to serve the Kahoun's Subdivision Area. This represents 61.2 percent of the developed single-family residential lots within the Kahoun's area that are eligible to participate in the WQPP.

#### **Feasibility Report**

We report that the above referenced project is feasible and recommend its construction. The location of this project is within an area of existing single-family residential development and existing commercial development that currently lacks public sanitary sewer and watermain. A majority of the septic systems and wells within the Area were constructed prior to the State of Minnesota and Olmsted County having any requirements or standards for construction of septic systems and wells. The lots are typically under ½ acre in size and are unable to absorb the nitrates created from the septic systems. There is an increasing threat of contamination to the City of Rochester's ground water supply as the existing septic systems and wells begin to fail. This project would allow property owners of lots containing existing single-family residential dwellings and developed commercial lots to connect to public sanitary sewer and water systems rather than replacing their old systems when they fail. This project also allows the undeveloped single-family residential lots to develop with public sewer and watermain

The costs of this project are proposed to be recovered through Sanitary Sewer and Watermain Connection Charges (Utility Connection Agreements), future charges to undeveloped land that is located adjacent to the project, RPU share for oversize watermain costs, project cost transfers to J9604 SE Area Trunk Watermain, J9598 Marion Trunkline Sewer and J9787 Crystal Springs sanitary sewer and watermain project, and Sales Tax Revenue appropriated to the City of Rochester, Water Quality Protection Program.

The proposed project consists of the installation of an 8-inch sanitary sewer lines, 8 and 12-inch watermain lines, and sanitary sewer and water service connections throughout the Kahoun's Subdivision Area.

City sanitary sewer is available to serve the Kahoun's area on the west and east sides of Marion Road SE at the intersections of Kahoun Court SE and 29<sup>th</sup> Street SE. Sanitary sewer will be extended from these locations to serve the Kahoun's Subdivision Area.

Trunk watermain is currently located at the intersection of 30<sup>th</sup> Avenue and Marion Road SE. Trunk watermain is scheduled to be extended from that location in the Spring of 2003 to serve the Kahoun's



Subdivision Area and other subdivisions in Marion Township that are located between 30<sup>th</sup> Avenue and the Kahoun's Subdivision that have requested the extension of city sanitary sewer and watermain through the City of Rochester Water Quality Protection Program Area.

### Applicable Connection Charge Rates and per Lot Caps

The Kahoun's Subdivision Area petition was received on July 21, 1999. On August 1<sup>st</sup> of each year the Water Quality Protection Program rates and per lot caps were adjusted by the change in the Engineering News Record Construction Cost Index as measured in the Minneapolis/St. Paul area during the preceding 12-months, the Department of Public Works recommends that the sanitary sewer and watermain connection charges for this project be based on the connection charge rates and per lot caps in affect at the time the petition was received by the City as follows:

- Maximum sanitary sewer and water connection charge rate of \$66.30 per foot of frontage.
- Maximum sewer and water connection charge per lot cap for a developed lot that contains a habitable single family dwelling unit shall be as follows:
  - 1) maximum \$8,160 per lot for any developed lot 1/2 acre or less.
  - 2) \$8,160 per lot, plus \$0.19 per square foot for any developed lot greater than ½ acre up to 1-1/2 acre.
  - 3) maximum \$16,320 per lot for any developed lot 1-1/2 acre or larger.

# The estimated construction costs and expenses of the project made without completed plans or survey are as follows:

Sanitary Sewer and Watermain		\$	699,642
Sewer Service Connection Stub-Outs	\$750 per service x 53 services	\$	39,750
Water Service Connection Stub-out	\$750 per service x 53 services	\$	39,750
Restoration	•	\$	448,955
Estimated Cost of the Project		\$	,228,097
The estimated project costs are proposed	d to be funded as follows:		
Utility Connection Agreements		\$	416,706
Future Charges to New Development		\$	53,615
RPU Share for Oversize Watermain	\$	41,158	
Trunk Watermain Costs (Transfer to J96	\$	24,000	
Marion Road SE Sanitary Sewer Crossing (Transfer to J9598)			20,680
50% of 40 <sup>th</sup> Avenue Costs (transfer to J9787 Crystal Springs)			180,000
Sales Tax Revenue (see below)		\$	491,938
Estimated Project Costs	\$	,228,097	
Amount of sales tax revenue required for	or the Project		
Sales Tax (Rate Cap and per Lot Cap)		\$	418,438
Sales Tax (Sewer Service Stub-Out Allo	owances) 49 services x \$750/serv.	\$	36,750
Sales Tax (Water Service Stub-Out Allo	owances) 49 services x \$750/serv.	\$	36,750
Estimated Amount of Sales Tax Fundin	g Required for Construction of Project	\$	491,938

### Estimated additional sales tax revenue required for work on private property

Of the 53 lots within the project area 49 lots contain a single-family residential dwelling. These lots are eligible for *Allowances* through the Water Quality Protection Program as follows:

Sewer Service Lateral	49 lots x \$1,000 per lot	\$ 49,000
Water Service Lateral	49 lots x \$1,000 per lot	\$ 49,000
Well Closure	49 lots x \$1,100 per lot	\$ 49,000
Septic Closure	49 lots x \$ 500 per lot	\$ 24,500
Estimated Amount of S	\$ 171,500	
Private Property	-	

#### Estimated sales tax revenue required for construction of Project and Allowances

Estimated Amount Sales Tax Revenue for Construction of the Project	\$	491,938
Estimated Amount of Sales Tax Revenue Required for Allowances	\$_	171,500
Estimated Amount of Sales Tax Revenue Required for Construction of the Project	\$	663,438
and Allowances for Work on Private Property		

We recommend that the necessary funding to construct sanitary sewer, watermain and service connections in the Kahoun's Subdivision Area be done so in accordance with the City of Rochester's existing sanitary sewer and watermain connection charge policies and the Water Quality Protection Program. Property owners that desire to participate in the Water Quality Protection Program and the benefits contained therein, are required to:

- 1. Enter into a Utility Connection Agreement with the City within three (3) years of the date the City initiates the project.
- 2. Connect the existing single-family residential dwelling or existing developed commercial property to the public sewer and water systems within five (5) years of the date of project initiation.
- 3. Consent to annexation of their property consistent with the conditions of an Orderly Annexation Agreement between the City and Marion Township.

Submitted for your consideration:

James/M. Loehr

Water Quality Protection Program

Project Manager

Richard W. Freese, P.E.

Director of Public Works

City Engineer



# BUDGET AND ASSESSMENT SCHEDULE FOR CONSTRUCTION CONTRACT

Project No:

M1-25

Date (Orig.) 01/22/2003

J No:

9786

Description:

Sanitary Sewer & Watermain Extension to Serve the Kahoun's Subdivision Area

	Project Budget	Contract Cost	Final Cost
Construction	J		
Sanitary Sewer & Watermain	\$ 538,390		
Service Connections	60,950		
Restoration	. 345,350		
Sub-Total	\$ 944,690		
Engineering/Interest/Contingency	283,407		
Total Construction & Expense	\$1,228,097		
Cost Distribution			
Anticipated Utility Connection Agreements	\$ 416,706		
Charges for Future New Development	\$ 53,615		
RPU Share Oversize Watermain	\$ 41,158		
Transfer to J9604 SE Area Trunk Watermain	\$ 24,000		
Transfer to J9598 Marion Trunkline	\$ 20,680		
Transfer to J9787 Crystal Springs	\$ 180,000		
Sales Tax Funding	\$ 491,938		
TOTAL	\$1,228,097		

Make Initial Disbursement from P. I. R. Fund

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Item	Unit	١,	Unit Cost	Quantity		Атоил	-		+-	
Sanitary Sewer	One	+-`	Jiii Cost	Quantity	╁	Amount	╁		+	
8" Sanitary Sewer	Lin, Ft.	S	28	5,525	S	154,700	+		+-	
Manhole	Each	5	2,000		+	34,000	+-		+	
20" Steel Casing	Lin. Ft.	s	160		—	17,600	+		+	
De-watering	Lin Ft.	S	10		<del>-</del>	55,250	S	261,550	1	
Watermain		1		<del> </del>	Ť		1		+	
6" Watermain	Lin Ft.	S	25	475	\$	11,875	1		$\top$	
8" Watermain	Lin. Ft.	S	30	3,070	\$	92,100	$\vdash$		$\top$	
12" Watermain	Lin. Ft.	S	35	3,295	\$	115,325	T		1	
6" GV & Box	Each	\$	600	15	\$	9,000	$\Box$		T	
8" GV & Box	Each	\$	800	<del></del>	\$	3,200			$\Box$	
12" GV & Box	Each	\$	1,300		\$	7,800				
6" Hydrant & Hyd. Leads	Hydrant	S	2,000	14	\$	28,000	$oxed{oxed}$		<u> </u>	
WM Fittings	Pound	\$	4	2,385	\$	9,540	S	276,840	ــــــــــــــــــــــــــــــــــــــ	
Service Connections	<del>  </del>	+		<del></del>	Ļ		<del></del>		<del> </del>	
4" Sewer & 1" Water Restoration	Each	<u> </u>	1,150	53	S	60,950	5	60,950	₩	
Aggregate Base	Cu. Yd.	5	18	2 000		50.750	├		₩-	
Breaker Run	Cu. Yd.	5	18	2,900	\$	50,750 39,150	⊢		┼	
Bituminous	Ton	<del>  3</del>	38		5	106,400	$\vdash$		+-	
Bituminous Roadway Removal	Sq. Yd.	\$	3		\$	40,050	$\vdash$		+	
Culverts	each	\$	600	13,330	\$	6,000	<del>                                     </del>		+	
Sod	Sq. Yd.	\$	3	30,000	S	90,000	$\vdash$		<u> </u>	
Seeding	Acres	S	2,000	2	s	3,000	_		<b>†</b>	
Erosion Control	Lump Sum	S	10,000	1	\$	10,000	S	345,350		
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				Sut	-To	tal	\$	944,690		
		I		E.I.&C.		30%	\$	283,407		
			Total Es	stimated Pro	ject	Cost	\$	1,228,097	$oxed{oxed}$	
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Project Funding Sources			tion Agree		S	416,706				
***************************************	RPU Shar		Developm		\$	53,615	<u> </u>		<b>├</b>	
	Crystal Sp				S	41,158 180,000	20	000 feet x :	1100	F4 1 /2
			main Co		\$	24,000				
	Trunkline				\$	20,680	400 feet x \$60/foot Marion Road Crossing			
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	SAC &	WAG	C Allowar	ices				· · · · ·	<u> </u>	
		R	ate/acre	Acres						
	SAC		\$1,500	25	\$	37,500				
	WAC		\$2,000	25	\$	50,000				
					\$	87,500			S	87,500
	Allowan			on Private P	rope	rty				
				No. of Lots						
	Sewer Lateral		1,000	49	\$	49,000				
	Water Lateral		1,000	49	\$	49,000				
<b></b>	Well Closure	\$	1,000	49	\$	49,000			<u> </u>	
	Septic Closure	\$	500	49	\$	24,500				181 200
	<del> </del>	<del> </del>			\$	171,500			5	171,500
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	Developed Lots	į .	Lots	No. of Lots		ļ				
	50		3	53	A۱	verage Per	Lot	Subsidy	S	14,169
						-				<del></del>
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RPU Share										
Over Size Watermain	Item	_	Unit	Unit Price	<u> </u>	uantity		Amount		
	12" Watermain		feet	\$ 8		3,295		26,360		
	12" GV & Box		each	\$ 500		6		3,000		
	Fittings	P	ounds	\$ 4		575	<u>s</u>	2,300		
		<del></del>		DDHCL	3-6-1		_	21 ((0)		
		i		RPU Sub-T		·	<u>s</u>	31,660 9,498		
		1								
		<u> </u>		30% E,I&C RPU Share			<u>s</u>	41,158		